

Claims

1. Device (3, 4, 5) for connecting a wireless network to at least one
5 other network comprising a bridge module for managing a plurality of ports for
connecting to respective networks; characterized in that it comprises a wireless
network management module (302) for managing associations, with an access
point (2) of a centralized wireless network (1), of devices (9, 10, 11, 15) of
networks (7, 8) connected to the bridge device other than the wireless network;
10 wherein the bridge device is adapted to be a station of the wireless network.

2. Device according to claim 1, further comprising means (301) for
determining a spanning tree for all networks attached to the device, comprising
means (313) for enabling or disabling the determination of the spanning tree.
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3. Device according to one of the claims 1 or 2, further comprising
means (301) for updating filtering tables (314) for respective connected
networks (308, 309, 310, 311), said filtering tables comprising information for
determining whether a message on a network is to be forwarded to another
20 network or not, said updating using a process by default, comprising means
(313) for enabling or disabling the default process.

4. Device according to claim 3, wherein said default process is based
on analysis of source addresses in messages detected on a respective network,
25 comprising means (313) for enabling or disabling message detection based
updating.

5. Device according to one of the claims 3 or 4, further comprising
means (301) for updating a filtering table for a given network based on a device
30 discovery process specific to said given network.

6. Device according to claim 3 to 5, wherein said default process is
enabled for an Ethernet network.

7. Device according to one of the claims 3 to 5, wherein said default
35 process is disabled for a USB network.

8. Device according to one of the claims 1 to 7, further comprising means (301) for generating a message to said wireless network management module upon a filtering table (314) amendment, said means for generating a message having an enabled state and a disabled state for each network.

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9. Device according to claim 8, wherein said means for generating a message are enabled for an Ethernet network.